



SURFACE CONDENSER SPECIFICATION SHEET

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|---|---------------------------------------|------------|-----------------|
| Customer: <i>Wabash Power Equipment Company</i> | | EG.No.: | 409 SVC 10 |
| Customer Ref: | Graham Condenser 91863M (1991) | Date: | 8/6/10 |
| Location | | Engineer: | FHA |
| Item: | 55/68 Dual Diameter Surface Condenser | | |
| PERFORMANCE | | | |
| Absolute Pressure @ Steam Inlet | inHgA | | 2.5" |
| Steam Condensed | lb/hr | | 63763 |
| Heat Rejected | Btu/hr | | 61,200,000 |
| Circulating Water Fresh Water | gpm | | 6123 |
| Water Specific Gravity / Specific Heat | Btu/lb °F | | 1 / 1 |
| Water Inlet / Outlet | °F | | 80/99.99 |
| Water Pressure Loss: | ft H2O /psi | | 17.0/7.4 |
| Percent Clean | | | 70 |
| Tube Velocity | ft/sec | | 6.75 |
| DESIGN | | | |
| Model: | | | 55 / 68 / FTSTB |
| Surface Area Total / Effective | sqft | | 7571 |
| Number Of Water Passes | | | 2 |
| Number Of Tubes | | | 1928 |
| Outside Diameter (in) - BWG | | | .75- 16g avg |
| Total Tube Length | ft | | 20 |
| Design / Test Pressure | psig | Shell | FV& 15 |
| | | Tubes | 100 |
| Design Temperature | °F | Shell | 250 |
| | | Tubes | 150 |
| Hotwell: bathtub | Supply | min | |
| Steam Inlet Diameter (in) (FF) | | | |
| Water Connections(in) | | | |
| Condensate Outlet (in) | | | |
| MATERIALS | | | |
| Shell | (SA-516-70) | | Carbon Steel |
| Air Cooling Shrouds | (SA-516-70) | | Carbon Steel |
| Tube Support Plates | (SA-516-70) | | Carbon Steel |
| Tube Sheets | (SB-171-C36600) | | NRB |
| Tubes | (SB-111-C44300) | | Admiralty |
| Water Boxes | (SA-516-70) | | Carbon Steel |
| Water Box Covers | (SA-516-70) | | Carbon Steel |
| Gaskets | Shell Side = Canvas w/red oxide | Tube Side= | Neoprene |
| REMARKS: DESIGN PER HEI TENTH EDITION | | | |
| Flared tube holes at inlet | | | |
| Double grooved tube sheet holes | | | |
| Special tube hole tolerance per TEMA # RCB-7.41(alt B) for tube sheet | | | |
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